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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/766,162	01/19/2001	Donald S. Gardner	42390P10775	9142	
8791	7590 11/06/2002				
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			EXAMINER		
	12400 WILSHIRE BOULEVARD, SEVENTH FLOOR LOS ANGELES, CA 90025			NGUYEN, TUYEN T	
			ART UNIT	PAPER NUMBER	
			2832		

DATE MAILED: 11/06/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.

09/766,162

Applicant(s)

Gardner

Office Action Summary

Examiner

Tuyen T. Nguyen

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	The MAILING DATE of this communication appears	on the cover sheet	with the correspondence address			
Period 1	for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the						
If the pIf NO pFailureAny re	e date of this communication. period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply as to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	nd will expire SIX (6) MOI e application to become A	NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133).			
Status						
1) 💢	Responsive to communication(s) filed on Aug 23, 2	001				
2a) 🗌	This action is FINAL . 2b) ☑ This acti	on is non-final.				
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposit	tion of Claims					
4) 💢	Claim(s) <u>1-18</u>		is/are pending in the application.			
4	a) Of the above, claim(s) 11 and 18		is/are withdrawn from consideration	on.		
5) 🗆	Claim(s)		is/are allowed.			
6) 💢	Claim(s) <u>1-10 and 12-17</u>		is/are rejected.			
7) 🗆	Claim(s)		is/are objected to.	:		
8) 🗆	Claims	are su	bject to restriction and/or election requireme	ent.		
Applica	tion Papers					
9) 🗌	The specification is objected to by the Examiner.					
10) 🗌						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	The proposed drawing correction filed on is: a) \square approved b) \square disapproved by the Examiner					
	If approved, corrected drawings are required in reply t	o this Office action	n.			
12)	The oath or declaration is objected to by the Exami	ner.				
Priority	under 35 U.S.C. §§ 119 and 120					
13)□	13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) 🗆	☐ All b)☐ Some* c)☐ None of:					
	1. Certified copies of the priority documents have been received.					
	2. \square Certified copies of the priority documents have	e been received ir	Application No			
	3. Copies of the certified copies of the priority do application from the International Burea	au (PCT Rule 17.2	2(a)).			
	ee the attached detailed Office action for a list of the					
14)↓	Acknowledgement is made of a claim for domestic					
	a) L The translation of the foreign language provisional application has been received.					
15)∐ ^****	Acknowledgement is made of a claim for domestic	priority under 35	U.S.C. 33 120 and/or 121.			
Attachm 1} ☑ No	ent(s) tice of References Cited (PTO-892)	4) Interview Summe	nry (PTO-413) Paper No(s).			
	tice of Draftsperson's Patent Drawing Review (PTO-948)	_	al Patent Application (PTO-152)			
	ormation Disclosure Statement(s) (PTO-1449) Paper No(s)5	6) Other:	.,			

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DETAILED ACTION

Election/Restriction

1. Applicant's election with traverse of claims 1-18 in Paper No. 9 is acknowledged. The traversal is on the ground(s) that claims 1-18 read on the elected species of figures 1-10. This is not found persuasive because claims 11 and 18 are directed toward an embodiment shown in figure 11.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 3. Claims 1 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Mizoguchi et
- al. [US 6,121,852].
 - 11-12 of Mizoguchi et al. discloses an inductor device comprising:
 - a substrate [27];

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- a first dielectric layer [26] over the substrate;
- a magnetic layer [22] over the first dielectric layer;
- a second dielectric layer [22] over the magnetic layer; and
- a generally spiral shaped conductor [24] over the second dielectric layer.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over figures 11-12 of Mizoguchi et al. [US 6,121,852] in view of figures 23A-23B of Mizoguchi et al.

Figures 11-12 of Mizoguchi et al. discloses an inductor device comprising:

- a substrate [27];
- a first dielectric layer [26] over the substrate;
- a magnetic layer [22] over the first dielectric layer;
- a second dielectric layer [22] over the magnetic layer; and
- a generally spiral shaped conductor [24] over the second dielectric layer.

Figures 11-12 of Mizoguchi et al. discloses the instant claimed invention except for a third dielectric layer over the inductor and another magnetic layer over the third dielectric layer.

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Figures 23A-23B of Mizoguchi et al. discloses an inductor including a substrate [36], a conductor [32] over the substrate, a dielectric layer [33] over the conductor and a magnetic layer [34] over the dielectric layer.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to include the dielectric layer and the magnetic layer over the conductor for the purpose of stabilizing the magnetic field.

6. Claims 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over figures 11-12 of Mizoguchi et al. in view of figures 23A-23B of Mizoguchi et al. as applied to claims 1 and 10 above, and further in view of Mizoguchi et al. [US 6,404,317].

Figures 11-12 in view of figures 23A-23B of Mizoguchi et al. '852 discloses the instant claimed invention except for slots being provided in the magnetic layer.

Mizoguchi et al. '317 discloses a multi-layered inductor [figure 38] including a plurality of magnetic layers and a plurality of dielectric layers with a conductor layer disposed therein, wherein the magnetic layer including a plurality of grooves/slots.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to include slots in the magnetic layer of Mizoguchi et al. '852, as suggested by Mizoguchi et al. '317, for the purpose of imparting magnetic anisotropy to the magnetic layer.

7. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over figures 11-12 in view of figures 23A-23B of Mizoguchi et al. '852 as applied to claims 1 and 7 above, and further in view of JP 6-124843.

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Figures 11-12 in view of figures 23A-23B of Mizoguchi et al. '852 discloses the instant

claimed invention except for the magnetic layers being connected.

JP 6-124843 discloses a multi-layered transformer including a plurality of magnetic layers

[8, 14] being connected to each other [see figure 1B].

It would have been obvious to one having ordinary skilled in the art at the time the invention

was made to connect the magnetic layers of Mizoguchi et al. '852 to each other, as suggested by JP

6-124843, for the purpose of providing a closed magnetic circuit.

8. Claims 2-5, 12-15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Mizoguchi et al. '852 in view of Fessant et al. [IEEE paper, copyrighted 1993].

Mizoguchi et al. '852 discloses the instant claimed invention except for the specific material

use for the magnetic layer.

Fessant et al. discloses the use of amorphous CoZr thin films.

It would have been obvious to one having ordinary skilled in the art at the time the invention

was made to use the materials shown by Fessant et al. for the magnetic layers of Mizoguchi et al. for

the purpose of providing low coercitivity.

9. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mizoguchi et al. '852

in view of Fessant et al. as applied to claims 12-15 above, and further in view of Mizoguchi et

al.'317.

Mizoguchi et al. '852, as modified, discloses the instant claimed invention except for slots

being provided in the magnetic layer.

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Mizoguchi et al. '317 discloses a multi-layered inductor [figure 38] including a plurality of magnetic layers and a plurality of dielectric layers with a conductor layer disposed therein, wherein the magnetic layer including a plurality of grooves/slots.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to include slots in the magnetic layer of Mizoguchi et al. '852, as suggested by Mizoguchi et al. '317, for the purpose of imparting magnetic anisotropy to the magnetic layer.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Tuyen T. Nguyen whose telephone number is (703) 308-0821.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Elvin Enad, can be reached at (703) 308-7619. The fax number for this Group is (703)872-9318 before the final office action, if the response is after final office action the fax number is (703)872-9319.

Any inquiry of a general nature or relating to status of this application of proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

TTN TW

November 4, 2002

Trugh T. Ngrugh